

Logistics

Tactical Land Based Water Resources Management in Contingency Operations

Headquarters
Department of the Army
Washington, DC
1 April 1993

UNCLASSIFIED

SUMMARY of CHANGE

AR 700-136

Tactical Land Based Water Resources Management in Contingency Operations

This regulation is completely revised. Many of the changes were generated by the revision of DoD Directive 4705.1 and from lessons learned during Operation Desert Storm.

This revision--

- o Revises policies, procedures and responsibilities for Army agencies responsible for the execution of this program.
- o Clarifies MACOM responsibilities.
- o Establishes unit commanders' responsibilities.
- o Adds policy for EPW support.

Effective 1 May 1993

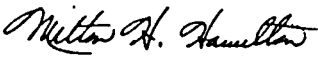
Logistics

Tactical Land Based Water Resources Management in Contingency Operations

By Order of the Secretary of the Army:

GORDON R. SULLIVAN
General, United States Army
Chief of Staff

Official:


MILTON H. HAMILTON
Administrative Assistant to the
Secretary of the Army

History. This UPDATE printing publishes a revision of this publication. Because the publication has been extensively revised, the changed portions have not been highlighted.

Summary. This regulation establishes policy and assigns responsibility for the management of water resources in support of

contingency operations. This regulation implements DOD Directive 4705.1.

Applicability. This regulation applies to the Active Army, the Army National Guard, and the U.S. Army Reserve.

Proponent and exception authority. The proponent of this regulation is the Deputy Chief of Staff for Logistics (DCSLOG). The DCSLOG has the authority to approve exceptions to this regulation that are consistent with controlling law and regulation. The DCSLOG may delegate this approval authority, in writing, to a division chief within the proponent agency in the grade of colonel or the civilian equivalent.

Army management control process. This regulation is not subject to the requirements of AR 11–2. It does not contain internal control provisions.

Supplementation. Supplementation of this regulation and establishment of local and command forms is prohibited without prior

approval from HQDA (DALO–TSE), WASH DC 20310.

Interim changes. Interim changes to this regulation are not official unless they are authenticated by the Administrative Assistant to the Secretary of the Army. Users will destroy interim changes on their expiration dates unless sooner superseded or rescinded.

Suggested Improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to HQDA (DALO–TSE), WASH DC 20310.

Distribution. Distribution of this publication is made in accordance with the requirements on DA Form 12–09–E, block number 3798, intended for command level A for Active Army, Army National Guard, and U.S. Army Reserve.

Contents (Listed by paragraph and page number)

Purposes • 1, *page 1*
References • 2, *page 1*
Explanation of abbreviations and terms • 3, *page 1*
Responsibilities • 4, *page 1*
Policy for water resources • 5, *page 2*

Appendix A. References, *page 3*

Glossary

Index

*This regulation supersedes AR 700–136, 1 October 1984.

RESERVED

1. Purposes

This regulation sets policy for tactical water resources management in support of contingency operations. It defines the Army role in joint contingency operations and outlines responsibilities for water support. This regulation does not apply to fixed installation water support operations or civil works emergency water management.

2. References

Related publications are listed in appendix A.

3. Explanation of abbreviations and terms

Abbreviations and special terms used in this regulation are explained in the glossary.

4. Responsibilities

a. Secretary of the Army. The Secretary of the Army is the Department of Defense (DOD) Executive Agent for water resources management in support of contingency operations.

b. Deputy Chief of Staff for Logistics (DCSLOG). The DCSLOG is designated the Army Staff proponent for land based water resource matters in support of Joint Operations and has DoD Executive Agent responsibility. The DCSLOG will—

(1) Coordinate requirements relating to logistics, with the Assistant Secretary of the Army (Installations, Logistics, and Environment).

(2) Coordinate requirements relating to research, development and acquisition with the Assistant Secretary of the Army (Research, Development and Acquisition (RDA)).

(3) Coordinate with other Services and the Joint Staff to develop joint policy, procedures, and requirements for water management resources in support of land based forces.

(4) Establish procedures for coordinating regulations, plans, and equipment acquisition related to water support for DOD components.

(5) Coordinate with other Services and the Joint Staff to ensure that research and development efforts meet overall DOD goals and that duplicate efforts are eliminated.

(6) Develop, in coordination with the other Services and the Joint Staff, joint doctrine for employment of water resources.

(7) Develop and publish an Army water support doctrine that is compatible with joint doctrine.

(8) Ensure that water support to other services is incorporated into Army Component operational plans (OPLANS).

(9) Ensure the development of an automated data base that will—
(a) Provide data on the location, quantity, and quality of land-based water resources to the Defense Mapping Agency (DMA) for incorporation into its terrain analysis program.

(b) Assist commanders in making water support logistics decisions in tactical situations.

(10) Establish and chair meetings of a water resources management action group (WRMAG) to coordinate and resolve joint water support issues.

c. The Deputy Chief of Staff for Operations and Plans (DCSOPS). The DCSOPS is responsible for—

(1) Water related troop organization, force structure, operations, plans, and readiness.

(2) Ensuring that resources are programmed to support the requirements of the combatant commands through the Program Objective Memorandum (POM) submissions.

d. Assistant Secretary of the Army (ASA) (Research, Development and Acquisition (RDA)). The ASA(RDA) is responsible for—

(1) Developing the guidance, with ODCSOPS, for the Long-Range Army Materiel Requirements Plan and serving as co-proponent for the Army Long-Range Research, Development and Acquisition Plan for equipping the future Army.

(2) Preparing the modernization portion of the POM, with ODCSOPS.

(3) Coordinating with the Assistant Secretary of the Army, Financial Management, and ODCSOPS, for reviewing and validating the RDA program.

(4) Monitoring its execution to include identifying programs for funding adjustments.

e. The Surgeon General (TSG). TSG is responsible for—

(1) Establishing water quality standards.

(2) Determining sanitary surveillance requirements.

(3) Technical reviewing and evaluating of water equipment to determine the possible existence of health hazards.

f. Chief of Engineers (COE). The COE is responsible for—

(1) Formulating policies, procedures, and equipment requirements to locate and develop raw water sources.

(2) Controlling contaminated run-off water.

(3) Developing an automated data base for rapid retrieval of water related data.

(4) Constructing, maintaining, and operating permanent and semi-permanent and non-tactical water utility systems to support enemy prisoner of war (EPW), refugee, displaced civilian and other similar humanitarian relief effort base camps.

(5) Establishing and assisting in the operation of the water utility and waste water systems associated with "Force Provider" support sites. Specific COE requirements will be determined by the "Force Provider" Commander.

g. Training and Doctrine Command (TRADOC). TRADOC is responsible for—

(1) Developing all tactical water support doctrine.

(2) Conducting individual training (for Military Occupational Specialties), TOE documentation and equipment basis of issue plans (BOIP).

(3) Validating DOD and Army water consumption planning factors.

(4) Assigning command representatives to the WRMAG from Headquarters, TRADOC; the Quartermaster Center and School; and other agencies/commands as deemed appropriate.

h. Army Materiel Command (AMC). AMC is responsible for—

(1) Storage and maintenance of all tactical water equipment maintained within CONUS depots, including all water equipment operational project stocks (OPS).

(2) Development of a water support system packaging plan.

(3) Contracting, acquisition, procurement, and research, development, and test requirements for all tactical water equipment.

(4) Funding and budget management for OPS.

(5) Assigning the Project Manager for Petroleum and Water Logistics to serve as a steering committee member to the WRMAG.

(6) Developing transportation plans, containerization plans, and call forward procedures for water operational project stocks at CONUS depots.

(7) Developing loan procedures for water operational project stocks to support training exercises.

(8) Developing a care of supplies in storage plan for water support equipment prepositioned afloat.

(9) Developing a plan for reconstitution of water operational project stocks after deployment.

i. Army Forces Commander. The Army Forces Commander will—

(1) Consider water support requirements for Army forces during the planning phases of an operation.

(2) Ensure that water support for other services, when required to be provided by the Army, is incorporated into OPLANS or pre-planned with inter-service support agreements (ISSA).

j. Quartermaster units. Quartermaster units will—

(1) Treat, store and distribute potable water.

(2) Establish and operate water points for direct support/general support of units.

k. Materiel management centers. Materiel management centers will centrally manage water as a critical commodity if potable water is declared a scarce commodity.

l. Engineer units. Engineer units will—

(1) Locate and develop water resources.

(2) Provide construction support necessary to establish water well sites.

(3) Construct, maintain, and operate permanent and semi-permanent water utility systems in the theater of operations.

m. Commanders. Commanders at all levels will—

(1) Take appropriate measures to protect water inventories from pilferage, contamination or damage/loss from natural causes.

(2) Establish and enforce water supply discipline.

(3) Ensure that troops under their command do not become dehydration casualties by providing adequate quantities of water and enforcing a consumption monitoring system.

(4) Use tactical water concepts and GS water systems for all command post exercises and other exercises; and whenever possible, collect data that can be used to validate or improve water support concepts.

n. Transportation units. Transportation units will provide line haul transportation of water between bulk storage facilities.

5. Policy for water resources

a. Water support requirements for Army forces. Water support requirements for Army forces will be considered in the initial phases of each military operation and when appropriate included in OPLANS. At a minimum, planners will ensure that—

(1) Maximum use will be made of existing water systems in an area of operations. Damaged systems that can be repaired and operated by the Army will be used to augment organic capability.

(2) Water requirements will be estimated on established planning factors. The joint planning factor for arid environments is 20 gallons per man per day.

(3) Plans will be formulated to meet all expected needs.

(4) Sufficient organic capability is programmed to support the water requirements of the force.

b. Water support for other Services.

(1) The Army will provide backup water support to other Services in an area of operations when requested and when water support requirements of the other Services exceed their own organic capability.

(2) Water support to other services should be incorporated into OPLANS or preplanned with ISSA's.

c. Water standards.

(1) Water standards will be established for each area of operation.

(2) Water standards for all applications will be established at levels that will not endanger the health of personnel.

(3) Water standards for construction, showers, laundry, and other cleansing purposes may be less than those established for drinking water.

d. Water treatment, storage and distribution.

(1) Water treatment, storage, and distribution points will be established as close to the using units as possible.

(2) Water will be treated as close to the raw water source as possible.

(3) Fresh water sources should be used before salt or brackish water sources.

(4) When water sources are scarce, only potable water will be distributed for all purposes to water points located near the using units.

(5) Only potable water will be stored or transported in containers intended for potable water.

e. Water management.

(1) When water is readily available, it will be provided to the user with minimum controls.

(2) When potable water is scarce, it will be centrally managed by materiel management centers as a critical commodity.

(3) When water resources are scarce, consumption requirements will be prioritized prior to its issue.

(4) Procedures will be established to maintain the potability of the water.

(5) Water inventories will be protected from pilferage, contamination, capture or damage/loss from natural causes.

f. Water supply discipline.

(1) Procedures for water supply discipline will be established and enforced.

(2) Adequate water consumption must be maintained to prevent heat casualties.

g. Exercises and training.

(1) The tactical water concepts should be included in all exercises.

(2) Water supply discipline training should be conducted periodically to ensure a thorough understanding of principles, practices and procedures.

Appendix A References

Section I Required Publications

This section contains no entries.

Section II Related Publications

A related publication is merely a source of additional information.
The user does not have to read it to understand this publication.

DoDD 4705.1

Management of Land Based Water Resources in Support of Joint
Contingency Operations

FM 10-52

Water Supply in a Theater of Operations

FM 10-52-1

Water Supply Point Equipment and Operations

Section III Prescribed Forms

This section contains no entries.

Section IV Referenced Forms

This section contains no entries.

Glossary

Section I Abbreviations

AMC

Army Materiel Command

ASA(RDA)

Assistant Secretary of the Army (Research, Development, and Acquisition)

BOIP

basis of issue plans

COE

Chief of Engineers

CONUS

Continental United States

DCSLOG

Deputy Chief of Staff for Logistics

DCSOPS

Deputy Chief of Staff for Operations and Plans

DMA

Defense Mapping Agency

DOD

Department of Defense

EPW

enemy prisoner of war

ISSA

inter-service support agreements

OPLANS

operational plans

OPS

operational projects stocks

POM

Program Objective Memorandum

TRADOC

Training and Doctrine Command

TSG

The Surgeon General

WRMAG

water resources management action group

Section II Terms

Force Provider

A modular designed collective support package to improve quality of life for the front line soldier. It contains all the materiel necessary to provide quality food, billeting, laundry, shower/hygiene services, and expanded morale, welfare and recreation to a brigade size force.

Potable Water

Water that is safe for human consumption.

Raw Water

Water in its natural state.

Treated Water

Water processed to the degree required for a specific use.

Water Point

Water supply point for direct support issue of water.

Section III

Special Terms

This section contains no entries.

Index

This index is organized alphabetically and by subtopic within topic. Topics and subtopics are identified by paragraph.

Policy Issues

- Army water support, 5a
- Water management, 5e
- Water standards, 5c
- Water support to other services, 5b
- Water supply discipline, 5f
- Water training/exercises, 5g
- Water treatment, storage, distribution, 5d

Responsibilities

- AMC, 4h
- ARFOR, 4i
- ASARDA, 4d
- COE, 4c
- Commanders, 4m
- DCSLOG, 4b
- DCSOPS, 4c
- Engineer, 4l
- MMC, 4k
- OTSG, 4e
- QM units, 4j
- SECARMY, 4a
- TRADOC, 4g
- Transportation units, 4n

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PIN: 056616-000

DATE: 11-30-98

TIME: 08:08:24

PAGES SET: 9

DATA FILE: r700-136.fil

DOCUMENT: AR 700-136

DOC STATUS: NEW PUBLICATION